



**Remediation Weekly Activity Summary Report
Ameren Columbia MGP - Remedial Action**

Project Week No.: 23
Period: 6/16 - 6/20/2014
Completed By: Dave Pluhar

PSC Project Number: 624-1302-0002

General Field Activities Completed: Week Ending June 20

The Phase III excavation in the temporary structure was completed on June 18; 8599.63 tons of soil were shipped to the Republic Jefferson City landfill from the Phase III excavation. No C & D waste was shipped to the landfill during the Phase III effort. Backfilling with rip-rap began on the 18th.

General Field Activities Planned: Week Ending June 27

Backfilling of the Phase III excavation will continue. Waste water will be collected and treated as needed. Crockett Engineering will work on the final site grading plan.

Air Monitoring Summary: Week Ending June 20

Real-time air monitoring was conducted by PSC at the structure overhead doors, the main truck gate, and on the perimeter of the structure. Monitoring of the structure air handlers continued to evaluate the carbon removal efficiencies, and the differential pressure between the structure and ambient conditions continued with monitoring data logging.

Weekly Project Meeting Summary: June 18, 2014

Site Safety Update: Heat stress and hydration are the main concerns now that summer weather has begun. These topics are covered each day during the daily safety briefing before work begins. EOI inspects the excavation each morning prior to the start of work to determine whether any unsafe conditions have manifested overnight. EOI is now cutting the grass on the right-of-way areas surrounding the site. Face and eye protection is being used; the crew has been instructed to halt cutting while pedestrians and vehicles pass. Work Scope Update: today will be the last day of loading of material from the Phase III excavation for disposal. Backfilling with stone will begin immediately. EOI is projecting that backfilling will be completed by July 3. Mahaffey can begin disassembly of the structure after the July 4 holiday on Monday, July 7. As of this morning, 8320 tons of impacted soil have been shipped from the Phase III excavation. Total disposal to date is 26,400 tons. The estimate of planned remaining removal for disposal is 4400 tons. The grading plan that Crockett Engineering is working on should be available by the time the structure disassembly begins. Air Monitoring Update: No air quality issues have been noted during the real-time air monitoring. The air handlers continue to operate well with no measurable VOCs in the effluent stream. Slight odors have been noted near the waste water storage tanks, but no measurable levels have been detected with the PID.



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Material Log								
Material Type:		Actual Quantities					Project Estimates	
	Prior Total:	This Period:	Total To Date:	Phase One	Phase Two	Phase Three	Original:	Revised:
Solid Waste Material:								
Soil Waste to Allied Waste, Jefferson City, MO (tons)	25099.13	1355.26	26454.39	12155.43	5699.33	8599.63	30000.00	31500.00
C & D Waste to Allied Waste, Jefferson City, MO (tons)	725.30	0.00	725.30	169.38	555.92	0.00	2500.00	1700.00
MGP Remediation Waste to PDC (tons)	0.00	0.00	0.00	0.00	0.00	0.00	1000.00	0.00
Total All Disposal (tons)	25824.43	1355.26	27179.69	27179.69	6255.25	8599.63	33500.00	33200.00
Clean Material:								
Soil Backfill (tons)	0.00	0.00	0.00	0.00	0.00	0.00	---	---
1/4-inch Stone (tons)	0.00	0.00	0.00	0.00	0.00	0.00	---	---
Sand (tons)	0.00	0.00	0.00	0.00	0.00	0.00	---	---
Rip-Rap (tons)	2578.43	455.74	3034.17	1172.64	1405.79	455.74	---	---
Type 1 Aggregate (tons)	15475.99	1149.00	16624.99	11383.23	4092.76	1149.00	---	---
Type 5 Aggregate (tons)	0.00	0.00	0.00	0.00	0.00	0.00	---	---
One-inch Clean Stone	161.14	0.00	161.14	0.00	161.14	0.00	---	---
	0.00	0.00	0.00				---	---
	0.00	0.00	0.00				---	---
	0.00	0.00	0.00				---	---
	0.00	0.00	0.00				---	---
Treated Wastewater:								
Discharged to Columbia Regional WWTP	157792	55160	212952				---	---
Disposed (other)	0	0	0				---	---
Trucks Transporting:								
	Monday	Tuesday	Wed	Thursday	Friday	Comments		
Disposal	7	5	3	0	0			
Backfill	0	0	2	4	0			

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Sample Collection Summary:

Soil Samples:

VOCs (5035/8260)
SVOCs (8270)
Metals (arsenic, lead, selenium)(6010)
Cyanide, total/amenable (9012)
Per-cent moisture (D-2974)
pH (9045)
TPH GRO (8260)
TPH DRO (8270)
Reactice Cyanide
Reactive Sulfide
TCLP Benzene
TCLP RCRA Metals

Actual Quantities

Project Estimates

Prior Total:	This Period:	Total To Date:	Original:	Revised:
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150	23	173	180	200
150	23	173	180	200
150	23	173	180	200
150	23	173	180	200
150	23	173	180	200
150	23	173	180	200
150	23	173	180	200
150	23	173	180	200
0	0	0	10	---
0	0	0	10	---
0	0	0	10	---
0	0	0	10	---

Wastewater Samples:

Ammonia as Nitrogen (EPA 350.1)
Total arsenic (EPA 200.8)
Total barium (EPA 200.8)
Benzene (EPA 624)
BOD5 (5210)
Total boron (EPA 200.7)
Total cadmium (EPA 200.8)
Total hexavalent chromium (EPA 218.6)
Total chromium (EPA 200.8)
Total copper (EPA 200.8)
Cyanide (SM4500 CN-1)
Total iron (EPA 200.9)
Total lead (EPA 200.8)
Total mercury (EPA 200.8)
Total nickel (EPA 200.8)
Oil & Grease (1664)
pH (4500-HB)
Phenols (420.2)
Total silver (EPA 200.8)
Total Suspended Solids ((2540-D)
Total toxic organics (EPA 624 & 625)
Total zinc (EPA 200.8)

[illegible]



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		Projected Dates		Actual Dates	
General Site Set-up		Start	Complete	Start	Complete
	Field Offices Established - 15 days	12/9/2013	1/10/2014	1/7/2014	1/13/2014
	Perimeter Fence & Gates Revised - 3 days	12/9/2013	12/13/2013	12/12/2013	12/13/2013
	Air Monitoring Stations Established - 2 days	12/19/2013	12/20/2013	12/19/2013	12/20/2013
	Baseline Air Sampling Completed - 6 days	12/30/2013	1/4/2014	12/30/2013	1/4/2014
	WWPT System Assembled - 5 days	1/13/2014	1/17/2014	1/15/2014	1/17/2014
	Traffic Control Plan Signs Installed - 1 day	1/6/2014	1/6/2014	1/7/2014	1/7/2014
Ameren Office Building Demolition		Projected Dates		Actual Dates	
	Asbestos Abatement - 3 days	11/12/2013	11/15/2013	11/12/2013	11/15/2013
	Contents Disposal - 1 day	12/17/2013	12/17/2013	12/17/2013	12/17/2013
	Structure Demolition - 3 days	1/8/2014	1/10/2014	1/13/2014	1/15/2014
	Debris Disposal - 2 days	1/9/2014	1/10/2014	1/15/2014	1/16/2014
Phase One Excavation		Projected Dates		Actual Dates	
	Phase One Excavation	1/17/2014	2/26/2014	1/17/2014	2/26/2014
	Phase One Backfilling	1/27/2014	3/7/2014	1/30/2014	3/6/2014
Sewer Replacement		Projected Dates		Actual Dates	
	Pre-Cast Fabrication	2/17/2014	3/12/2014	2/17/2014	3/12/2014
	Staking	3/3/2014	3/4/2014	3/7/2014	3/7/2014
	Contractor Mobilization	3/5/2014	3/7/2014	3/10/2014	3/10/2014
	Existing Culvert Demolitions	3/10/2014	3/12/2014	3/12/2014	3/14/2014
	Excavation & Subgrade Prep	3/13/2014	3/19/2014	3/11/2014	3/14/2014
	West Junction Excavation	3/13/2014	3/14/2014	3/12/2014	3/14/2014
	Install Pre-Cast Sections	3/20/2014	4/2/2014	3/20/2014	3/21/2014
Phase Two "A" Excavation		Projected Dates		Actual Dates	
	Phase Two Excavation	3/10/2014	3/21/2014	3/7/2014	4/1/2014
	Phase Two Backfilling	3/24/2014	4/4/2014	4/2/2014	4/8/2014
	Old Culvert Demolition	4/3/2014	4/23/2014	3/10/2014	4/11/2014
Phase Three Excavation		Projected Dates		Actual Dates	
	Temporary Structure Assembled - 12 days	4/29/2014	5/9/2014	5/5/2014	5/17/2014
	Ventilation System Assembled - 10 days	5/7/2014	5/20/2014	5/5/2014	5/16/2014
	Temporary Structure Permit Received - 1 day	5/8/2014	5/8/2014	4/11/2014	4/11/2014
	Structure Inspection Completed - 1 day	5/16/2014	5/16/2014	5/17/2014	5/17/2014
	Phase Three Excavation	5/15/2014	7/15/2014	5/21/2014	6/18/2014
	Phase Three Backfilling	6/11/2014	7/3/2014	6/11/2014	
	Structure Disassembled - 10 days	7/8/2014	7/18/2014		
	Ventilation System Removed	7/14/2014	7/18/2014		
	Air Handlers Shipped	7/17/2014	7/18/2014		
	Structure Components Shipped	7/21/2014	7/24/2014		
Phase Two "B" Excavation		Projected Dates		Actual Dates	
	Phase Two Excavation	7/21/2014	8/1/2014		
	Phase Two Backfilling	8/4/2014	8/15/2014		

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Site Restoration		Start	Complete	Start	Complete
	Final Site Surface Grading	8/18/2014	8/20/2014		
	Final Site Surface Repair	8/21/2014	9/3/2014		
	Site Fence Revisions Completed	8/25/2014	8/29/2014		
Site Demobilization		Start	Complete	Start	Complete
	Excavation Equipment Demobilized - 2 days	9/3/2014	9/4/2014		
	WWPT System Removed - 2 days	8/18/2014	8/20/2014		
	LP Tank Removed - 1 day	7/14/2014	7/14/2014		
	Traffic Control Signage Removed - 1 day	8/29/2014	8/29/2014		
	Sidewalk Reopened - 1 day	8/29/2014	8/29/2014		
	Utilities Disconnected - 2 days	9/1/2014	9/2/2014		
	Facilities Removed - 2 days	9/1/2014	9/2/2014		
	Pac-Van Office Demobilized - 1 day	9/3/2014	9/3/2014		



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■ Backfilled
▨ Open Excavation



TITLE:
REMEDIAL EXTENT
PHASE I, II & III EXCAVATION
AS OF JUNE 20, 2014

DRAWN:
WST
CHECKED:
DATE:
6/18/14

DESIGNED:
APPROVED:
REVISED:

PROJECT NO.:
COLUMBIA MGP
WEEK 23

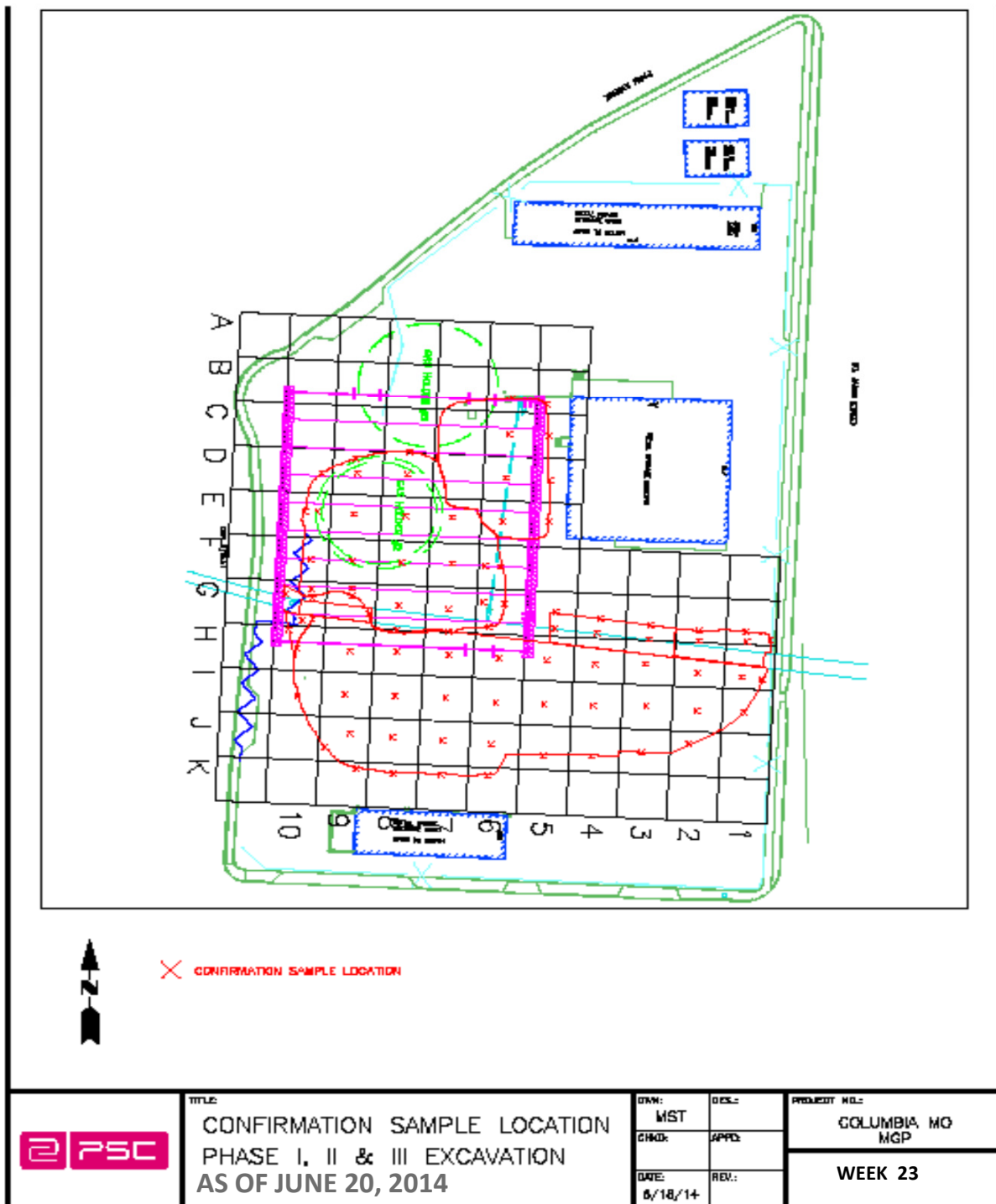
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The Phase III excavation continues in the southeast portion of the excavation area; impacted soil and the coal are removed down to the level of the light gray underclay which has not been impacted.



Confirmation soil samples are collected from the floor of the Phase III excavation



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The floor of the Phase III excavation in the southeast portion of the excavation; impacted soil and coal have been removed to lateral extent possible within the constraints of the temporary structure.



The removal of impacted soil continues in the remaining area of the Phase III excavation in the northeast portion of the removal area..



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The final portion of the gas holder tank wall and remaining impacted contents are removed in the northeast portion of the excavation.



The final extent of removal of material in the northeast portion of the Phase III removal area; additional material will be removed after the temporary structure has been disassembled.



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Backfilling of the Phase III excavation continues with rip-rap.



The rip-rap fill is spread to blanket the entire floor of the Phase III excavation area.



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The rip-rap is compacted and Type 1 stone backfill is placed above the rip-rap.



The extent of backfilling at the end of Week 23.